Honeywell

RTH5100B Non-programmable Thermostat

INSTALLATION INSTRUCTIONS

The RTH5100B Thermostat provides electronic control of 24 Vac single-stage heating and cooling systems or 750 mV heating systems.



START HERE

For assistance with your Honeywell product, please visit www.honeywell.com/yourhome or call Honeywell Customer Care toll free at 1-800-468-1502.

Read and Save these Instructions

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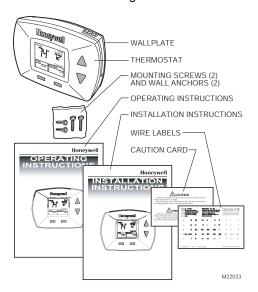
69-1716

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Step 1. Prepare for Installation

1. Check that the following items are included:





If any of the items shown above are missing, call Honeywell Customer Care at 1-800-468-1502 before returning the thermostat to the store.

Step 1. Prepare for Installation (Cont)

- Check that you have everything required for the installation:
 - · Two AAA alkaline batteries
 - No. 2 Phillips screwdriver and standard pocket screwdriver
 - Drill
 - Drill bit— use 3/16 in. for drywall; use 7/32 in. for plaster
 - · Level (optional)
 - Hammer
 - Pencil
 - · Electrical tape

Step 2. Follow Important Instructions

 Do not connect the wires to the new thermostat based on wire color because damage can occur to the heating and/or cooling system.

These Installation Instructions explain later how to use the enclosed wire labels to correctly mark the wires connected to your old thermostat.

OLD THERMOSTAT VELOW NITE RED

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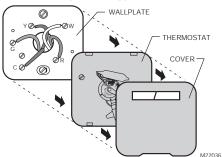


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Step 3. Remove Old Thermostat

- Turn off power at the heating and/or cooling system or fuse/circuit breaker panel.
- 2. Remove the cover from the old thermostat.
- Remove the old thermostat from the wall or wallplate. Do not remove the wires.







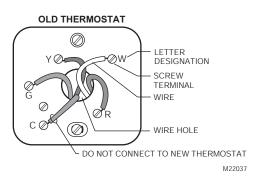
MERCURY NOTICE

If you are replacing a thermostat that contains mercury in a sealed tube, do not place your old thermostat in the trash.

Contact your local waste management authority for instructions regarding recycling and the proper disposal of an old thermostat containing mercury in a sealed tube.

Step 4. Follow Special Instructions

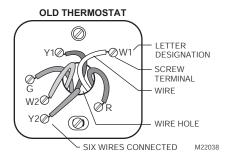
- If you have C and/or C1 wire(s) connected to your old thermostat, do not connect them to your new thermostat.
- Disconnect the C and/or C1 wire(s). Make sure they do not touch each other or any other wires.
- Wráp the bare end of each C and/or C1 wire(s) with electrical tape.



Step 4. Follow Special Instructions (Cont)

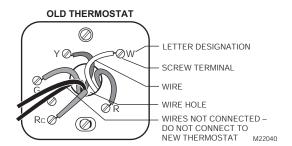
4. Most installations have two to five wires connected to the old thermostat. If six or more wires are connected to your old thermostat (not counting the C or C1 wires), do not continue the installation. You may have purchased the wrong thermostat.

Visit www.honeywell.com/yourhome or call Honeywell Customer Care at 1-800-468-1502 before returning the thermostat to the store.



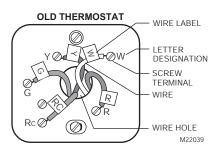
Step 4. Follow Special Instructions (Cont)

- If you find any wires not connected to your old thermostat, do not connect them to your new thermostat.
- **6.** Wrap the end of the wires that are not connected with electrical tape.



Step 5. Label Old Thermostat Wires

- As you disconnect each wire, use the enclosed wire labels to wrap a wire label around each wire that matches the letter designation. Do not allow the wires to fall into the wall opening after the wires are disconnected.
- 2. Remove any remaining parts of the old thermostat from the wall

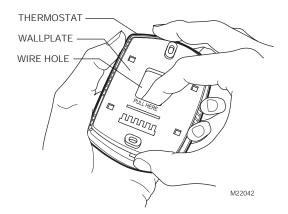




When connecting the wires to the new thermostat, refer to the wire labels. Do not connect wires to your new thermostat based on the color of the wire.

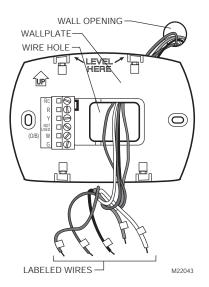
Step 6. Mount New Wallplate to Wall

 Separate the wallplate from the thermostat as shown.



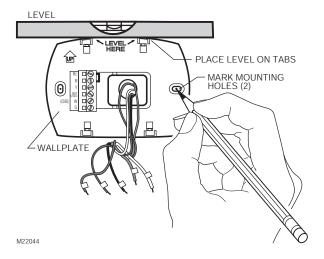
Step 6. Mount New Wallplate to Wall (Cont)

2. Pass the labeled wires through the wire hole on the wallplate.



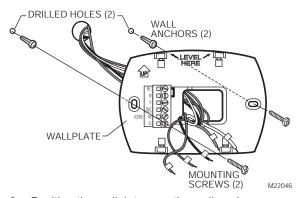
Step 6. Mount New Wallplate to Wall (Cont)

Position the wallplate on the wall with the arrow pointing up. Level the wallplate (for appearance only) and mark the two mounting holes with a pencil.



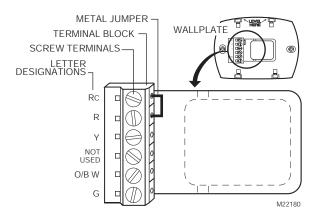
Step 6. Mount New Wallplate to Wall (Cont)

- Move the wallplate aside and drill holes at the locations marked on the wall. Drill 3/16 in. holes for drywall or 7/32 in. holes for plaster.
- Tap the wall anchors into the drilled holes until even with the wall surface.

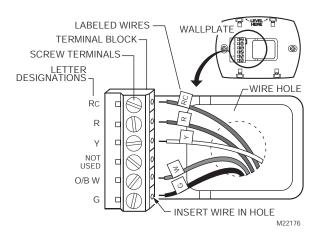


- **6.** Position the wallplate over the wall anchors.
- Insert the mounting screws into the wall anchors. Check leveling, if desired, and tighten the mounting screws.

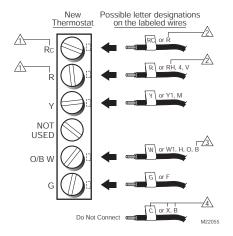
- Match the labeled wires to the letter designations on the wallplate.
- If wires are to be connected to both Rc and R, loosen the Rc and R screw terminals and remove the metal jumper.
- 3. If only one of the terminals, Rc or R, is to be connected, leave metal jumper in place.



- Loosen the screw terminals. Insert the labeled wires into the holes on the right side of the terminal block that match the letter designations. Tighten the screw terminals.
- If any of the labeled wires do not match the letter designations, see next page for wire connections.



Compare letter designations on your old and new thermostats.





Do not connect more than one wire to each terminal. Be sure to read the notes referenced in the numbered triangles above. These numbered notes appear on the next page.

NOTES



1 If wires will be connected to both Rc and R on the new thermostat, remove metal jumper between Rc and R. Leave metal jumper in place if only one of the terminals, Rc or R, will be connected on the new thermostat



/2\ If wires were connected to both R and RH terminals on the old thermostat, remove metal jumper between Rc and R on the new thermostat. Connect the old R to the new Rc and the old RH to the new R

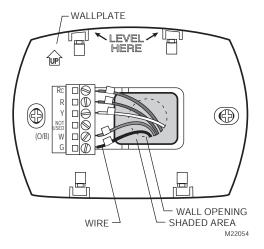


3 Do not connect both O and B when wiring to a heat pump. Connect O to O/B W. Wrap the bare end of the B wire with electrical tape and do not use.



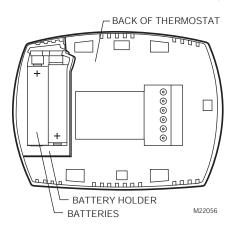
4 Transformer common. Wrap the bare end of the wire with electrical tape and do not use. M22050

Push excess wire back into the wall opening. Keep wires in the shaded area.



Step 8. Install Batteries

 Install two fresh AAA alkaline batteries on the back of the thermostat as marked on the battery holder.

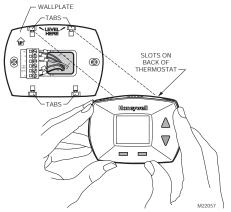




After the thermostat is mounted on the wallplate, the thermostat does not require removal from the wallplate to replace the batteries. Refer to the enclosed Operating Instructions (69-1722) for more information on the removable battery holder.

Step 9. Attach New Thermostat to Wallplate

 Align the four tabs on the wallplate with the four slots on the back of the thermostat.



- 2. Push the thermostat straight onto the wallplate until it snaps into place.
- 3. Turn on the power at the heating and/or cooling system or fuse/circuit breaker panel.

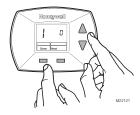
If the wires interfere with mounting the thermostat to the wallplate, push the excess wire back into the wall opening.

Step 10. Configure Installer Setup

- Use the Installer Setup Menu to match your new thermostat to your heating and/or cooling system. Follow the steps in this section to set up your thermostat.
- Enter the Installer Setup Menu by pressing and holding the Up and Fan buttons at the same time, for approximately five seconds, until the screen changes.

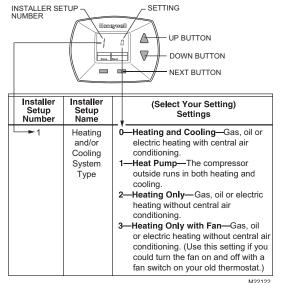


Release the buttons when the display on your thermostat matches the display below.



10. Configure Installer Setup (Cont)

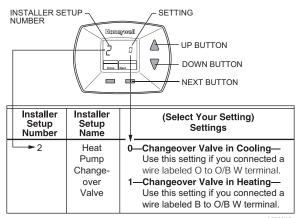
- Press the Up or Down button to select your setting for Installer Setup Number 1 in the table below.
- After you select your setting, press the Next button to go to the next Installer Setup Number.



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Configure Installer Setup (Cont)

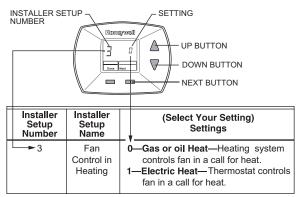
- If you do not have a number 2 on the left side of your display, go to the next page.
- If you have a number 2 on the left side of your display, press the Up or Down button to select your setting for Installer Setup Number 2 in table below.
- **8.** After you select your setting, press the Next button to go the next Installer Setup Number.



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Step 10. Configure Installer Setup (Cont)

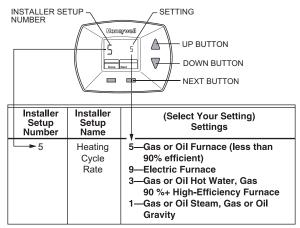
- If you do not have a number 3 on the left side of your display, go to the next page.
- 10. If you have a number 3 on the left side of your display, press the Up or Down button to select your setting for Installer Setup Number 3 in table below.
- After you select your setting, press the Next button to go to the next Installer Setup Number.



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Step 10. Configure Installer Setup (Cont)

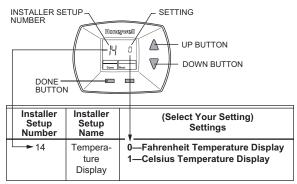
- If you do not have a number 5 on the left side of your display, go to the next page.
- 13. If you have a number 5 on the left side of your display, press the Up or Down button to select your setting for Installer Setup Number 5 in table below.
- **14.** After you select your setting, press the Next button to go to the next Installer Setup Number.



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Step 10. Configure Installer Setup (Cont)

- **15.** Press the Up or Down button to select your setting for Installer Setup Number 14 in table below.
- After you select your setting, press the Done button to exit the Installer Setup and save your settings.
- 17. Congratulations! The installation of the thermostat is complete. Refer to the enclosed Operating Instructions (69-1722) for information on how to operate your new thermostat.

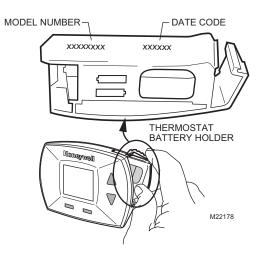


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Customer Assistance

For assistance with your Honeywell product please visit www.honeywell.com/yourhome or call Honeywell Customer Care toll free at 1-800-468-1502.

Before calling, please have the thermostat model number and date code available.



Limited One-Year Warranty

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option) within a reasonable period of time.

If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the retailer from which you purchased it, or
- (ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the malfunction, and mail it, postage prepaid, to the following address:

Honeywell Return Goods Dock 4 MN10-3860 1885 Douglas Dr N Golden Valley, MN 55422

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

Limited One-Year Warranty (Cont)

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE ONE-YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write Honeywell Customer Relations, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1-800-468-1502. In Canada, write Retail Products ON15-02H, Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V4Z9.

Honeywell

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